

Title (en)

FUEL INJECTION CONTROL DEVICE AND FUEL INJECTION CONTROL METHOD FOR INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFEINSPRITZSTEUERUNGSVORRICHTUNG UND KRAFTSTOFFEINSPRITZSTEUERUNGSVERFAHREN FÜR VERBRENNUNGSMOTOR

Title (fr)

APPAREIL ET PROCÉDÉ DE RÉGLAGE D'INJECTION DE CARBURANT POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 3358172 B1 20200513 (EN)

Application

EP 18155056 A 20180205

Priority

JP 2017020715 A 20170207

Abstract (en)

[origin: EP3358172A1] During rapid warm-up operation, a CPU (62) executes full lift injection processing, in which a nozzle needle (22) reaches a maximum lift amount, in an intake stroke of each cylinder of a four-cylinder internal combustion engine (10), and then executes partial lift injection processing, in which the nozzle needle (22) does not reach the maximum lift amount, in a compression stroke. On the other hand, during learning of injection characteristics of partial lift injection processing, the CPU (62) executes full lift injection processing after executing partial lift injection processing, both of which are executed within a predetermined period in an intake stroke. The CPU (62) learns the injection characteristics based on an inflection point in the temporal change of the induced electromotive force in a coil (24) following the end of the partial lift injection processing.

IPC 8 full level

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